

CLAIMS

1. A pressure sensor comprising: plural first wires and plural second wires intersecting with each other in arrangement; and sensor sections provided in the vicinities of the respective corresponding intersections, wherein

each of the sensor sections includes:

a first electrode electrically connected to the first wire;

a second electrode disposed opposite to the first electrode; and

a cavity formed between the first electrode and the second electrode, and

the second wires work additionally as the second electrodes in the sensor sections.

2. A pressure sensor comprising: plural first wires and plural second wires intersecting with each other in arrangement; and sensor sections provided in the vicinities of the respective corresponding intersections, wherein

each of the sensor sections includes:

a first electrode electrically connected to the first wire;

a second electrode disposed opposite to the first electrode; and

a cavity formed between the first electrode and the second electrode, and

the first wires have larger width portions in respective spaces between adjacent sensor sections.

3. A pressure sensor comprising: plural first wires and plural second wires intersecting with each other in arrangement; and sensor sections provided in the vicinities of the respective corresponding intersections, wherein

each of the sensor sections includes:

a first electrode electrically connected to the first wire;
a second electrode disposed opposite to the first electrode; and
a cavity formed between the first electrode and the second electrode,
the second wires work additionally as the second electrodes, and
the first wires have larger width portions in respective spaces between adjacent sensor sections.

4. The pressure sensor according to claim 2 or 3, wherein
the first wires are connected to the first electrodes at the larger width portions.

5. The pressure sensor according to any of claims 1 to 3, wherein
all of the first wires and all of the second wires extend outwardly from the
outermost peripheral boundary portion where sensor sections along the outermost
periphery are disposed.

6. The pressure sensor according to claim 5, wherein
all of the first wires and all of the second wires extend outwardly from the
outermost peripheral boundary portion by a length of 100 μm or more.

7. The pressure sensor according to any of claims 1 to 3, wherein
dummy sensor sections are disposed in the outermost peripheral portion of a
region including the sensor sections.

8. The pressure sensor according to any of claims 1 to 3, wherein
the first wires are connected to the first electrodes through contact layers higher

in resistance than the first wires.

9. The pressure sensor according to claim 8, wherein the contact layers are formed with a silicon layer mixed with a conductive impurity.

10. The pressure sensor according to claim 8, wherein the contact layers are formed with polycrystalline silicon.

11. The pressure sensor according to any of claims 1 to 3, wherein the first wires are connected to the first electrodes through switching elements.

12. The pressure sensor according to claim 11, wherein the switching elements are thin film transistors.

13. The pressure sensor according to any of claims 1 to 3, wherein a scanning signal is sequentially supplied onto the plural first wires.